

Grants Opportunities: Energy (5)

May 2013

Unconventional Gas and Oil Technologies

Granting Agency: National Energy Technology Laboratory

Current Closing Date for Applications: 6/17/2013

Expected Number of Awards: 5

Eligibility: All types of domestic entities, such as Domestic Entities For-profit entities, educational institutions, and U.S-incorporated, nonprofits except other Federal agencies, Federally Funded Research and Development Center (FFRDC) Contractors, and nonprofit organizations described in section 501(c)(4) of the Internal Revenue Code of 1986 that engaged in lobbying activities after December 31, 1995

Estimated Total Program Funding: \$8,000,000

CFDA Number: 81.089

Funding Opportunity Number: DE-FOA-0,000894

The intent of this Department of Energy, National Energy Technology Laboratory FOA is to select and award projects in FY13 that focus on improving the environmental performance of shale gas, tight oil, and tight gas resource development. This can be achieved by mitigating issues related to wellbore integrity and zonal isolation and by reducing water usage, air emissions, and resource degradation through better unconventional resource stimulation that appropriately matches technology to local geologic and hydrologic conditions. This announcement is a critical component of the DOE portfolio to advance the environmentally sound development of unconventional domestic natural gas and oil resources and it will support ongoing programmatic efforts to improve our understanding of the nature and impacts of unconventional resource development, develop improved technologies and engineering practices to ensure these resources are developed safely and with minimal environmental impact, and increase supply of U.S. oil and gas resources in order to enhance national energy security and further reduce energy imports. **For more information,** go to

www.fedconnect.net/FedConnect/Default.htm

'Turn Key' Open Source Software Solutions for Energy Management of Small to Medium Sized Buildings

Granting Agency: Golden Field Office

Current Closing Date for Applications: 6/24/2013

Eligibility: Although DOE/NNSA Federally Funded Research and Development Centers (FFRDCs) and DOE Government-Operated Government-Owned laboratories (GOGOs) are eligible to apply for funding as a prime recipient or subrecipient, individuals from FFRDCs and GOGOs that participated in the preparation of this FOA are not eligible to participate in the application process.

CFDA Number: 81.086

Funding Opportunity Number: DE-FOA-0000822

Buildings consume over 40% of the total energy consumption in the U.S. A significant portion of the energy consumed in buildings is wasted because of the lack of building controls or the

inability to use existing Building Automation Systems (BAS) properly. Over 90% of the buildings in the U.S. are either small-sized (<5,000 square feet, or sf) or medium-sized (between 5,000 sf and 50,000 sf); these buildings typically do not use BAS to monitor and control their building systems from a central location. This FOA seeks to develop a turn-key BAS solution specifically tailored to small and medium buildings to advance opportunities for energy efficiency in this sector. **For more information**, go to <https://eere-exchange.energy.gov/Default.aspx#FoaId4c478854-ca32-4e31-b8f7-df34d99d800d>

Energy for Sustainability

Granting Agency: National Science Foundation

Current Closing Date for Applications: 2/20/2014

Expected Number of Awards: 95

Eligibility: Unrestricted

Estimated Total Program Funding: \$13,093,000

CFDA Number: 47.041

Funding Opportunity Number: PD-14-7644

This program supports fundamental research and education that will enable innovative processes for the sustainable production of electricity and transportation fuels. Processes for sustainable energy production must be environmentally benign, reduce greenhouse gas production, and utilize renewable resources. **For more information**, go to www.nsf.gov/funding/pgm_summ.jsp?pims_id=501026

Combustion, Fire, and Plasma Systems

Granting Agency: National Science Foundation

Current Closing Date for Applications: 2/20/2014

Expected Number of Awards: 50

Eligibility: Unrestricted

Estimated Total Program Funding: \$4,654,000

CFDA Number: 47.041

Funding Opportunity Number: PD-14-1407

The Combustion, Fire, and Plasma Systems program supports fundamental research and education relevant to these subjects. Among the broader societal impacts of the program are cleaner global and local environments, enhanced public safety, improved energy and homeland security, useful new materials, and more efficient manufacturing. This program is not an applied program, but rather it endeavors to provide basic knowledge that is needed to develop useful combustion and plasma applications and for mitigating the effects of fire. Broad-based tools - experimental, diagnostic, and computational - that can be applied to a variety of problems in combustion, fires, and plasma systems are the major products of this program. **For more information**, go to www.nsf.gov/funding/pgm_summ.jsp?pims_id=13366

Thermal Transport Processes

Granting Agency: National Science Foundation

Current Closing Date for Applications: 2/20/2014

Expected Number of Awards: 72

Eligibility: Unrestricted

Estimated Total Program Funding: \$7,047,000

CFDA Number: 47.041

Funding Opportunity Number: PD-14-1406

The Thermal Transport Processes program supports engineering research aimed at gaining a basic understanding of the thermal transport phenomena at nano/micro and macro scales in (1) cooling and heating of equipment and devices, (2) energy conversion, power generation and thermal energy storage and conservation, (3) the synthesis and processing of materials including advanced manufacturing, (4) the propulsion of air and land-based vehicles, and (5) thermal phenomena in biological systems. The program supports fundamental research and engineering education in transport processes that are driven by thermal gradients, and manipulation of these processes to achieve engineering goals. Priority is given to insightful investigations of fundamental problems with broad economic, environmental and societal impact, and to novel studies of heat and mass transfer principles to understand phenomena, to enhance performance and/or achieve key goals. **For more information,** go to www.nsf.gov/funding/pgm_summ.jsp?pims_id=13367